aggcactaaatgaacacgattaacatcgctaagaacgacttctctgacatcgactggctgctgctaatcccgttcaacac

Fig.

CTGGCTGACCATTACGGTGAGCGTTTAGCTCGCGAACAGTTGGCCCTTGAGCATGAGTTTACGAGATGGGTGAAGCA;3317 CGCTTCCGCAAGATGTTTGAGCGTCAACTTAAAGCTGGTGAGGTTGCGGATAACGCTGCCGCCAAGCCTCTCATCACT:3395 accctactccctaagatgattgcacgcatcaacgactggtttgaggaagtgaaagtcaagcgaggaagccaagcgcggcaagcccgaca;3473 AAAGCATTTATGCAAGTTGTCGAGGCTGACATGCTCTCTAAGGGTCTACTCGGTGGCGAGGCGTGGTCTTCGTGGCAT:3785 AAGGAAGACTCTATTCATGTAGGAGTACGCTGCATCGAGATGCTCATTGAGTCAACCGGAATGGTTAGCTTACACCGC:3863 GCAGGTGCGCTGCCTGCCATCTCTCCGATGTTCCAACCTTGCGTAGTTCCTCCTAAGCCGTGGACTGGCATTACTGGT; 4019 GACGTTTACATGCCTGAGGTGTACAAAGCGATTAACATTGCGCAAAACACGCGTGGAAAATCAACAAGAAAGTCCTA:4175 CAAAATGCTGGCGTAGTAGGTCAAGACTCTGAGACTATCGAACTCGCACCTGAATACGCTGAGGCTATCGCAACCCGT:3941 GACAAGGCTCGCAAGTCTCGCCGTATCAGCCTTGAGTTCATGCTTGAGCAAGCCAATAAGTTTGCTAACCATAAGGCC:4409 ATCCGTGACCTTGAAGCTAAGCACTTCAAGAAAACGTTGAGGAACAACTCAACAAGAGGGCGTAGGGCACGTCTACAAG:3707 GCGGTCGCCAACGTAATCACCAAGTGGAAGCATTGTCCGGTCGAGGACATCCCTGCGATTGAGCGTGAAGAACTCCCG:4253 GCCTTCCAGTTCCTGCAAGAAATCAAGCCGGAAGCCGTAGCGTACATCACCATTAAGACCACTCTGGCTTGCCTAACC: 3551 GGTGGCTATTGGGCTAACGGTCGTCGTCGTCCTCTGGCGCTGGTGCGTACTCACAGTAAGAAAGCACTGATGCGCTACGAA: 4097 ATCTGGTTCCCTTACAACATGGACTGGCGCGCGGTCGTTTTACGCTGTGTCAATGTTCAACCCGCAAGGTAACGATATG:4487 ATGAAACCGGAAGACATCGACATGAATCCTGAGGCTCTCACCGCGTGGAAACGTGCTGCCGCTGCTGTGTACCGCAAG:4331 H Σ U ഗ ഗ н Ø H ч Z > U 3 A Ø H 24 **'** H Σ 田 Ø > Ą Д ĸ Ø × Д H _O Ø Ø W A H Ω 2 × Œ z ⋈ Ą × Ø ĸ × × Ą 闰 × G H ഥ Н Д z × ល Ø щ Н Œ. <u>α</u> œ ď × н U ഗ Z 团 GEVAD H H NUWFERV П HCPVEDI ĸ A д Q P C V V P T S ı I Ø 闰 æ 0 ¥ N I A Q N E A V A Y I ALTAW O L A L н Þ н PLALVR ŋ DC] Ů ы 闰 闰 A M Σ 闰 S > Q L K A H တ K N H Н Σ ഥ AI 阳 U Z A R I д > Ω တ Д 24 M ద M Д YK ß ¥ > Ω Ŀ Ą ĸ 24 ß Ø O U H 闰 Н H > Ħ н ט 阳 > > ტ × > Z Н Z 囝 Ġ z ſΞι ø Н > H Ø > Z > Σ > ď Ø ы Н O × Σ Н U Z Σ တ Ø O Ē Ω Ω Ö r G ڻ ڻ 24 闰

AACTGTGCGGGTGTCGATAAGGTTCCGTTCCCTGAGCGCATCAAGTTCATTGAGGAAAACCACGAGAACATCATGGCT;4643 CAACAAGTGCTGGAAGATACCATTCAGCCAGCTATTGATTCCGGCAAGGGTCTGATGTTCACTCAGCCGAATCAGGCT:5189 Q Q V L E D T I Q P A I D S G K G L M F T O P N O A :673 AAGTCTGCTGCTAAGCTGCTGGCTGCTGAGGTCAAAGATAAGAAGACTGGAGAGTTCTTCGCAAGCGTTGCGCTGTG;5345 CAGCACTTCTCCGCGATGCTCCGAGATGAGGTAGGTGGTCGCGCGGTTAACTTGCTTCCTAGTGAAACCGTTCAGGAC;4877 GCTGGATACATGCTAAGCTGATTTGGGAATCTGTGAGGGTGGTGGGTAGCTGCGGTTGAAGCAATGAACTGGCTT:5267 A G Y M A K L I W E S V S V T V V A A V R A M N W T 699 CATTGGGTAACTCCTGATGGTTTCCCTGTGTGGCAGGAATACAAGAAGCCTATTCAGACGCGCTTGAACCTGATGTTC:5423 ATCGCTCCTAACTTTGTACACAGCCAAGACGGTAGCCACCTTCGTAAGACTGTAGTGTGGGGCACACGAGAAGTACGGA;5579 GCTTACGGTGTTACTCGCAGTGTGACTAAGCGTTCAGTCATGACGCTGGCTTACGGGTCCAAAGAGTTCGGCTTCCGT;5111 CTCGGTCAGTTCCGCTTACAGCCTACCATTAACACCAACAAAGATAGCGAGATTGATGCACACAAACAGGAGTCTGGT;5501 Ċ 3 Q O. a IJ z z > PJ Д Σ U 2 O Ω M SAAKLLAAEVKDKKTGEILRK Ħ Ø T D E N T G E I S E K V K L G T K A L A Q P T I N T N K D S E I D A H K ध्य G V T R S V T K R S V M T L A Y G S K д ഥ Q V L E D T I Q P A I D S G K G L M F ტ G Y M A K L I W E S V S V T V V A A V QHFSAMLRDEVGGRAVNLL GIVAKKVNEILQADAIN AKSPLENTWWAEQDSPF W V T P D G F P V W Q E Y K K P I

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1:MNTI-NIAKNDFSDIELAAIPFNTLADHYGERLAREQLALEHESYEMGEARFRKMFERQLKAGEVADNAAAKPLITT () 1:I.EEE	80:KMIARINDWFEEVKAKRGKRPTAFQFL-QEIKPE-AVAYI-TIKTTLACLTSADNT-TVQA 5 81:.LTTVE.LYAS.K.RK.S.YAPLLS.FLVISTNMI 80:QLTKDKQANAK.R.YYPIKHGVAS.L.VSMG.EVLKE.RGVSSEAIAL.TIKVV.GN.HRPLKGHNP. 52:P.AEG.QAYKYEG.K.RA.R.LAQ-CVENVAYI.MVVMDMNT.A.LQ	140:AIGRAIEDEARFGRIRDLEAKHFKKNVEEQLNKRVGHVYKKAFMQVVEADMLSKGLLGG-EAWSSWHKEDSIHVGVR 141:ML.K	219:MLIESTGMVSLHRQN-A-GVVG-QDSETIELAPEYAEAIATR-AGALAGISPMFQPCVVPPKPWTGITGGGYW-ANG 220:VAVA	294:LALVRTHSKKALMRYEDVYMPEVYKAINIAQNTAWKINKKVLAVANVITKWK-HCPVED-IPAIEREELPMKPED 295:	367:ID-MNPEALTAWKRAAAAVYRKDKARKSRRISLEFMLEQANKFANHKAIWFPYNMDWRGRVY-AVSMF 368:T.EAKEKKILV
T7 1:N T3 1:. K11 1:. SP6 1:-	T7 80:R T3 81:. K11 80:C SP6 52:P	T7 140:A T3 141:M K11 160:Q SP6 110:S	T7 219:M T3 220:. K11 239:L SP6 189:I	T7 294:L T3 295:. K11 317:. SP6 268:I	T7 367:I T3 368:. K11 390:. SP6 347:L
			3/21		

F i g. 4

F i g. 5

	630	640	6 50 ▼	099	010	089	069	700
토	: ICUERSUERESU	: YGVTRSVTKRSSMTLAYGSKEFGFR <u>omflædfioral</u> dsgkglmftopnoaagymakliwes <mark>vsvynaaveamhel</mark> k		Idsgegimft	QPnqaagtmai	CLIWEST	WANTANTA	É
:644Y	: I CATASVEKRIN	: I GWTRSVTKRBYMTLAIGSKE EGFR <mark>ogylædetigpr</mark> i dsgkglmftopnoaagymakliwe sysvtyvaaveammek	AGE EST OF H	IDSGKGLMFT	QPNQAAGTMAH	CLIWES	VTVVÄAVEÄÄ	Ä
:646Y	: YGVTRSVTKRSV	: YGVTRSVTKRBSMTLAYGSKRFGERQMLEDFIQPRIDSGKGLMFTQPNQAAGYMAKLIWESWSWTWVRAWEARHHIK	radizastaŭ	IDSGKGLMFT	QPnqaagtmaf	CLIWESWS	VIVVAAUSAM	Ĭ
.665P/F667Y	: I CATINSVITARS W	: YGVTRSVTKRSVMTLAYGSKEPGFRQQYLRDYIQPALDSGKG®MYTQPNQAAGYMAKLIWE SVSYTVVAAVEAMMR IK	AVLEDTIOPA	IDSGKGPMYT	QPNQAAGYMAI	CLIWESUS	VEVVAAVEAM	
	Helix Y	Loop	Helix Z		Loop		Helix AA	

T7RNApol T3RNApol	1:MNTI-NIAKNDFSDIELAAIPFNTLADHYGERLAREQLALEHESYEMGEARFRKMFERQL 1:I.EEEEESAKLLA ** * * * **** **********************
T7RNApol T3RNApol	60:KAGEVADNAAAKPLITTLLPKMIARINDWFEBVKAKRGKRPTAFOFLQEIKPEAVAYITI 61:ILALTTVB.LYAS.K.RK.S.YAPLLS.FL **** ******** **** ** ** * * * * * * *
T7RNApol T3RNApol	T7RNApol 120:KTTLACLTSADNTTVQAVASAIGRAIEDEARFGRIRDLEAKHFKKNVEEQLNKRVGHVYK T3RNApol 121:.VISTNMIA.GML.K
T7RNApol T3RNApol	T7RNApol 180:KAFMQVVEADMLSKGLLGGEAWSSWHKEDSIHVGVRCIEMLIESTGMVSLHRQNAGVVGQ T3RNApol 181:IGRDTTMI.LL.E.Q.HNA.S ************************************
T7RNApol T3RNApol	T7RNAPOL 240:DSETIELAPEYAEAIATRAGALAGISPMFQPCVVPPRFWTGITGGGYWANGRRPLALVRT T3RNAPOl 241:.H.ALQQVDVL.KVA

300: HSKKALMRYEDVYMPEVYKAINIAQNTAWKINKKVLAVANVITKWKHCPVEDIPAIEREE T7RNApol T3RNApol

360:LPMKPEDIDMNPEALTAWKRAAAAVYRKDKARKSRRISLEFMLEQANKFANHKAIWFPYN 361:..P..D...T.EA..KE..K...GI..L....V.......SK.....SK..... **************** T3RNApol T7RNApol

F i g. 7

T7RNApol	420:MDWRGRVYAVSMFNPQGNDMTKGLLTLAKGKPIGKEGYYWLKIHGANCAGVDKVPFPERI
T3RNApol	421:
T7RNApol	480:KFIEENHENIMACAKSPLENTWWAEQDSPFCFLAFCFEYAGVQHHGLSYNCSLPLAFDGS
T3RNApol	481:AKHVDD.LD.IN
T7RNApol	540:CSGIQHFSAMLRDEVGGRAVNLLPSETVQDIYGIVAKKVNEILQADAINGTDNEVVTVTD
T3RNApol	541:
T7RNApol	600:ENTGEISEKVKLGTKALAGQWLAYGVTRSVTKRSVMTLAYGSKEFGFRQQVLEDTIQPAI
T3RNApol	601:KDLSTQ
T7RNApol	660:DSGKGLMFTQPNQAAGYMAKLIWESVSVTVVAAVEAMNWLKSAAKLLAAEVKDKKTGEIL
T3RNApol	661:
T7RNApol	720:RKRCAVHWVTPDGFPVWQEYKKPIQTRLNLMFLGQFRLQPTINTNKDSEIDAHKQESGIA
T3RNApol	721:.HTRL.KDMI
T7RNApol	780:PNFVHSQDGSHLRKTVVWAHEKYGIESFALIHDSFGTIPADAANLFKAVRETMVDTYBSC
T3RNApol	781:
T7RNAPOL	840:DVLADFYDQFADQLHESQLDKMPALPAKGNLNLRDILESDFAFA
T3RNAPO1	841:STPKQK

F i g. 8

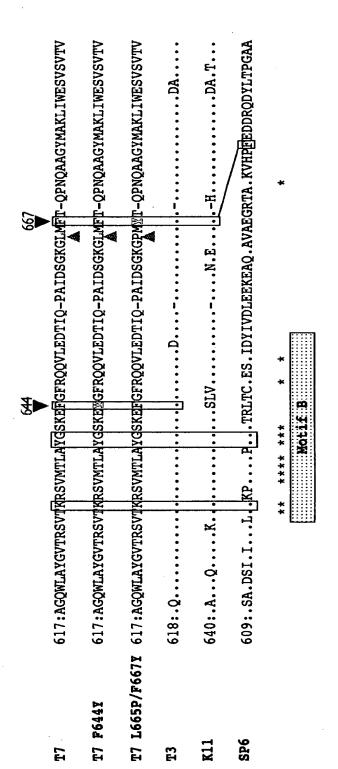


Fig. 9

BACTERIOPHAGE T7 GENOMIC DNA

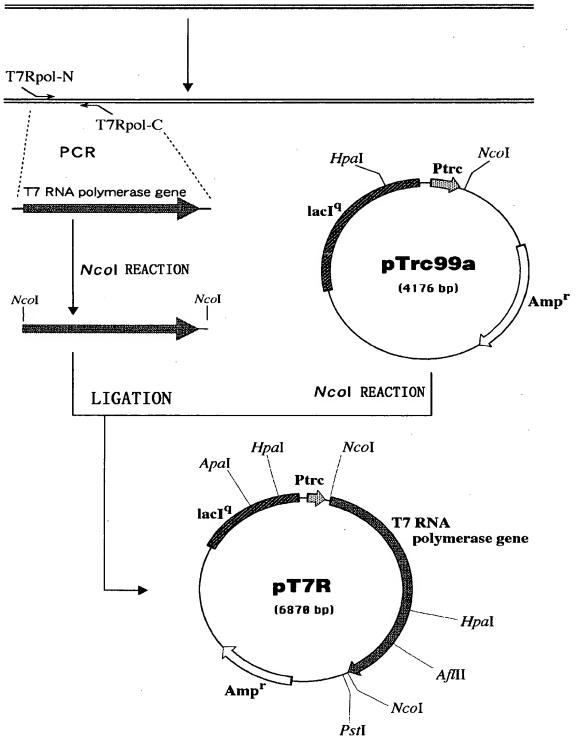


Fig. 10

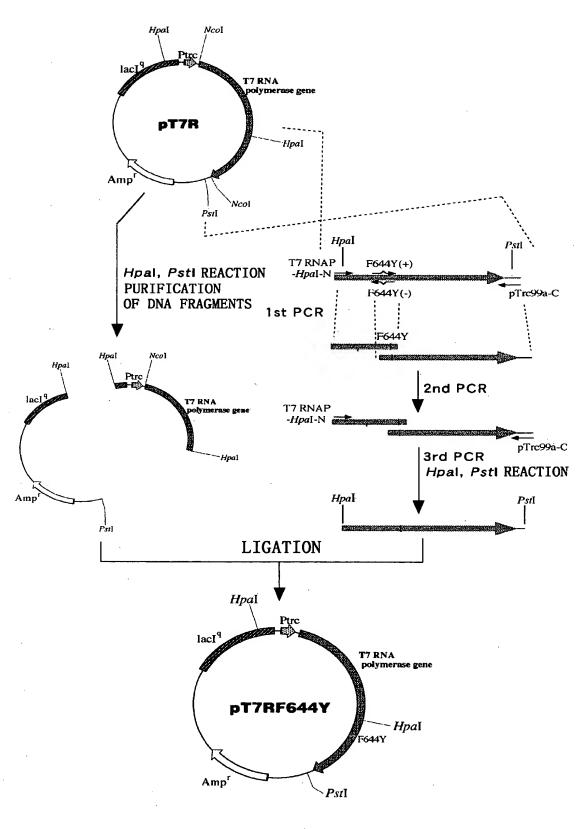


Fig. 11

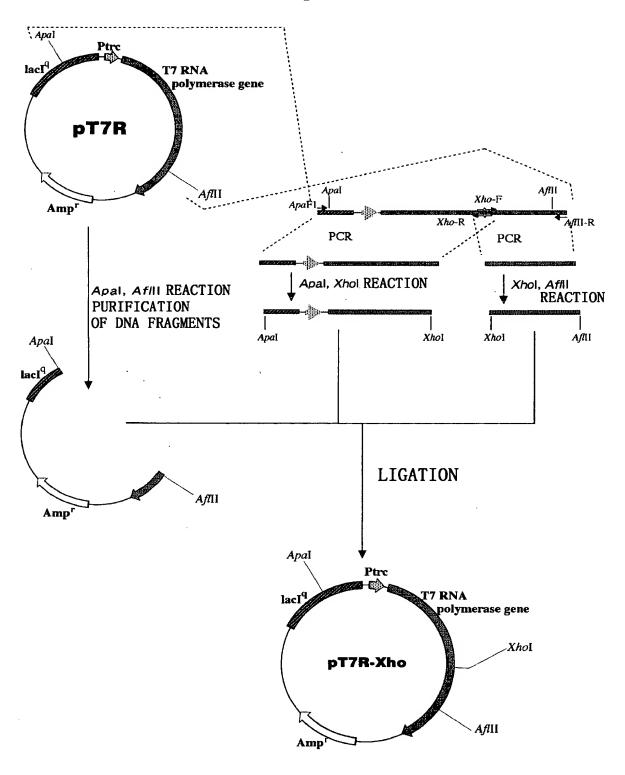


Fig. 12

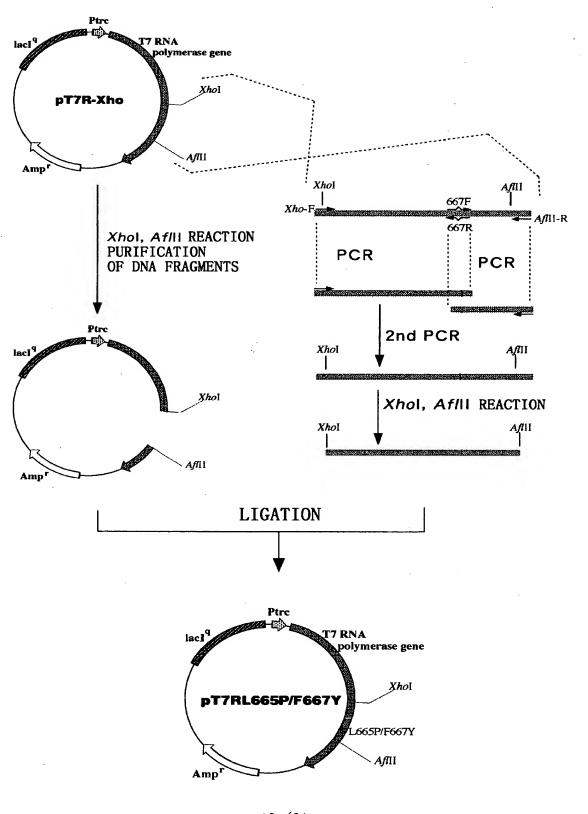


Fig. 13

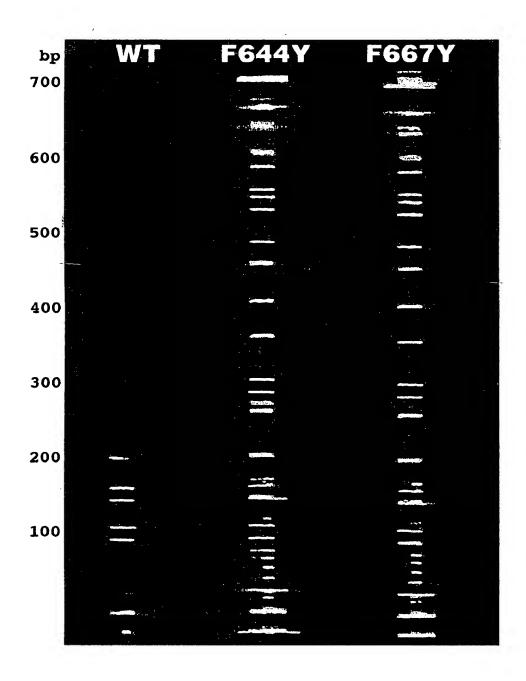


Fig. 14

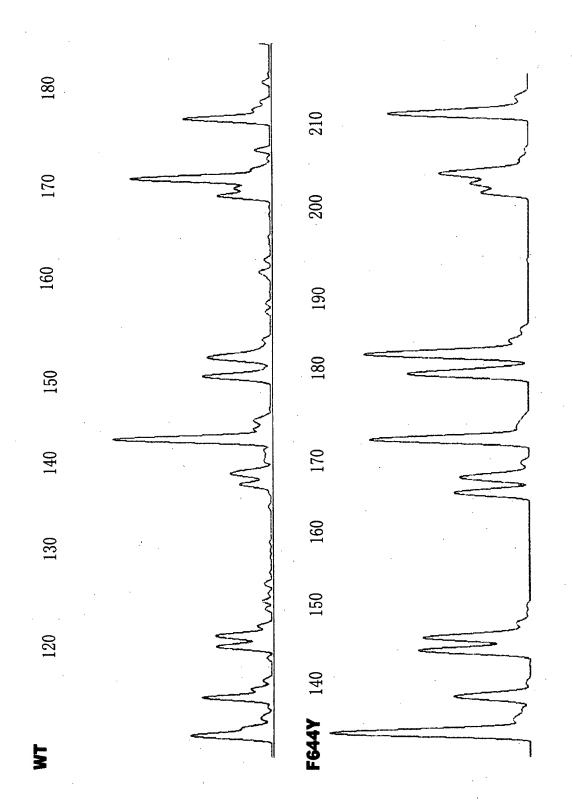


Fig. 15

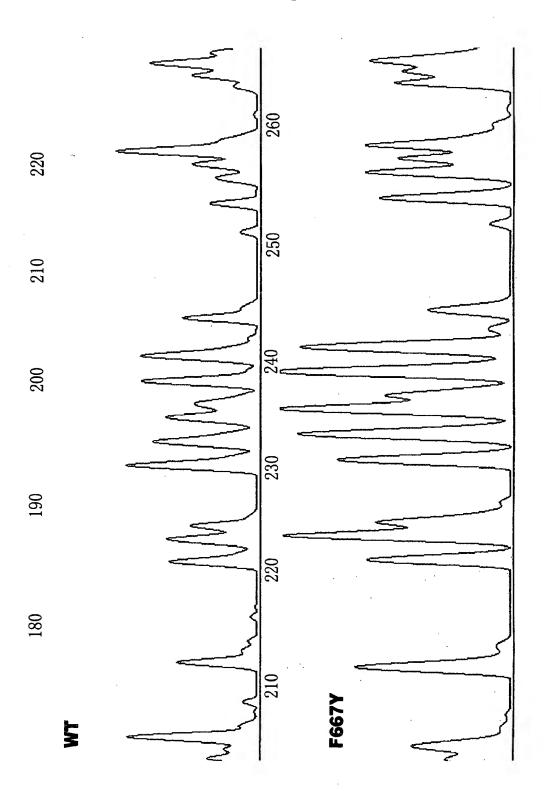


Fig. 16

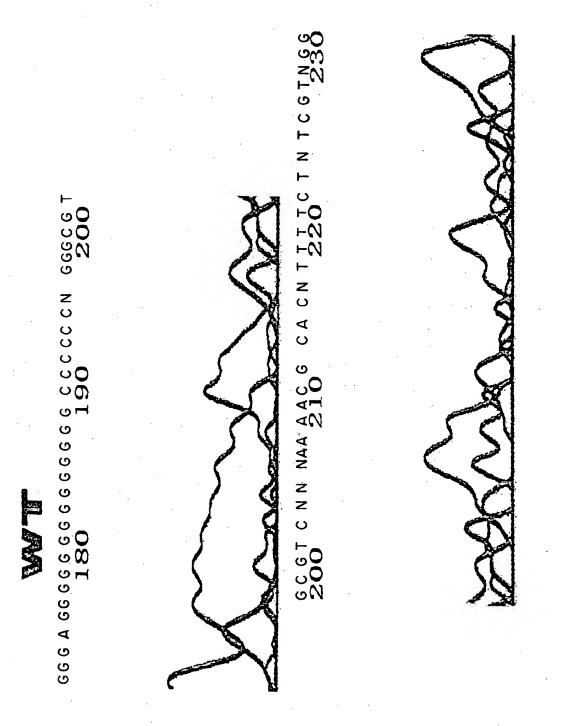
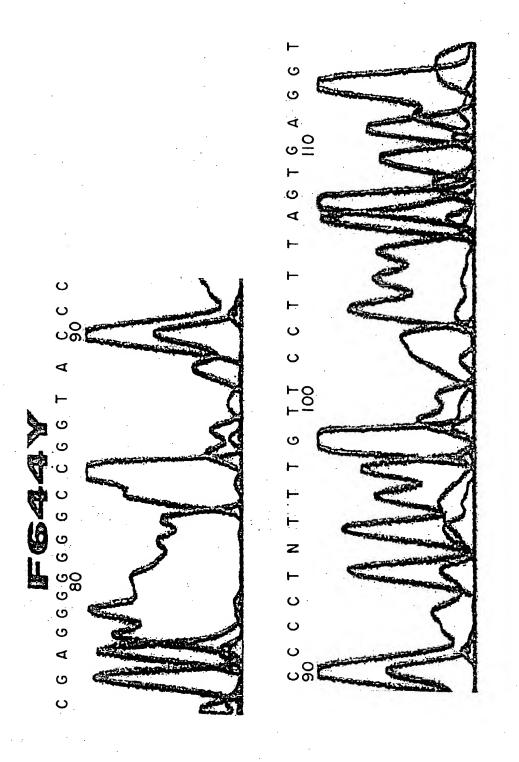


Fig. 16



F i g. 16

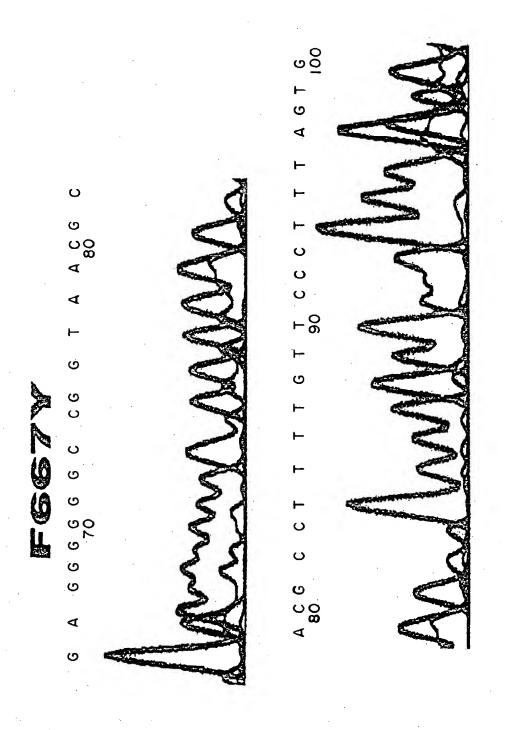
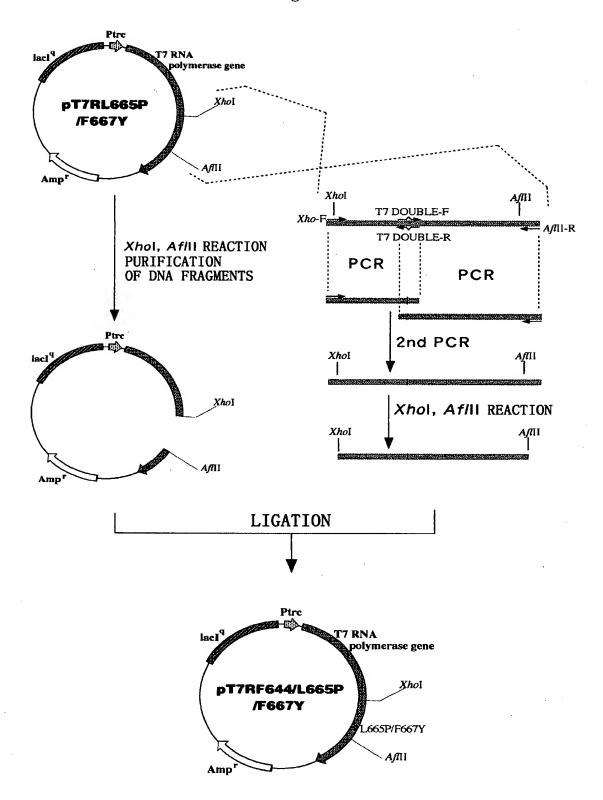


Fig. 17



F i g. 18

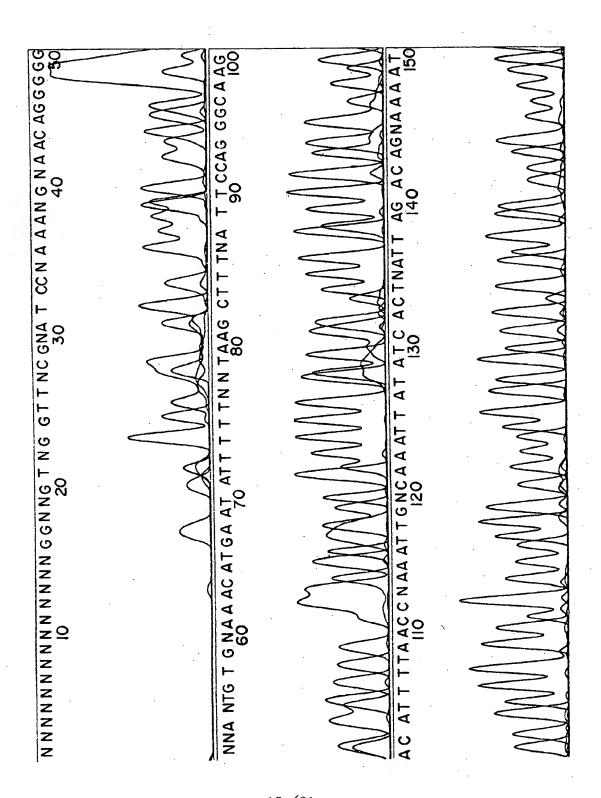


Fig. 18
(2)

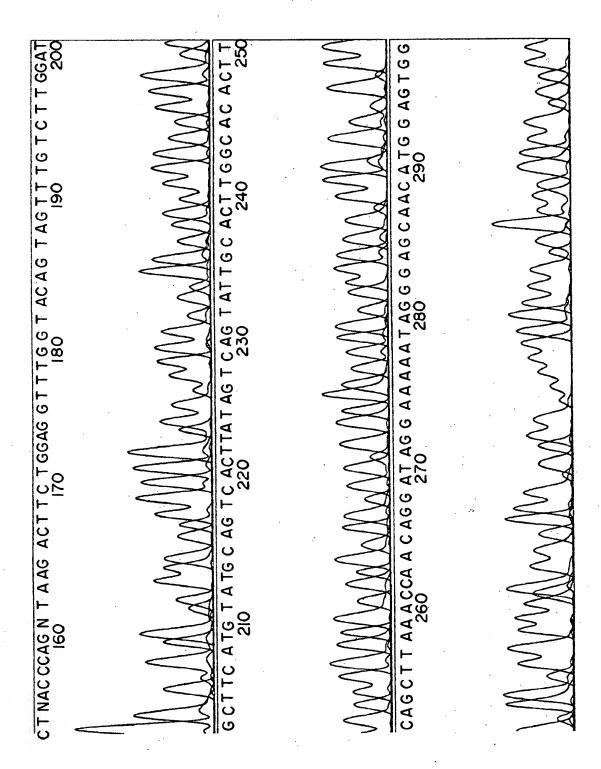


Fig. 18

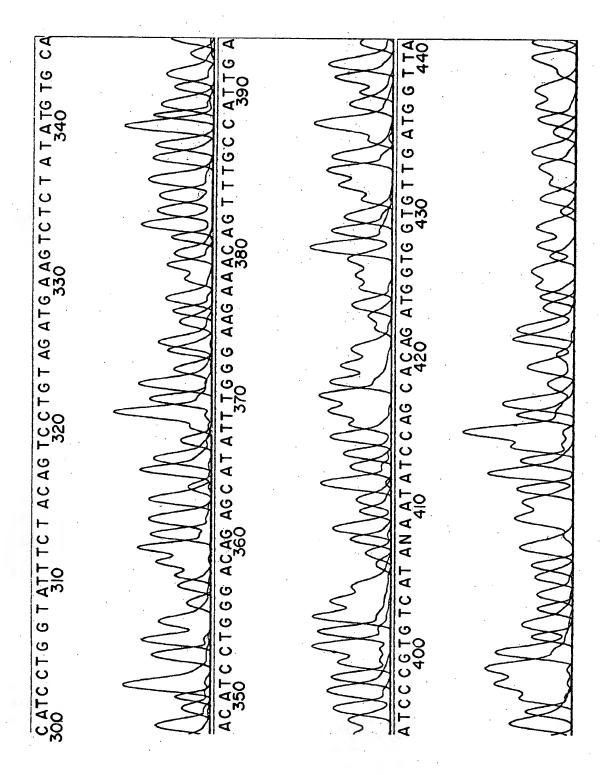




Fig. 18
(4)

